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L1: Entry 1 of 6

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050215450

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050215450 A1

TITLE: Endo-beta-1,4-glucanases

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Outtrup, Helle	Vaerlose		DK
Schulein, Martin	Copenhagen		DK
Henriksen, Torben	Copenhagen		DK
Bjornvad, Mads Eskelund	Frederiksberg		DK
Gibson, Keith	Bagsvaerd		DK

US-CL-CURRENT: [510/320](#); [435/200](#), [435/252.3](#), [435/471](#), [435/6](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Ds
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☐ 2. Document ID: US 20050112749 A1

L1: Entry 2 of 6

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112749

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050112749 A1

TITLE: ENDO-BETA-1,4-GLUCANASE FROM BACILLUS

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Outtrup, Helle	Skovhaven		DK
Schulein, Martin	Osterbrogade		DK
Eskelund, Mads Bjornvad	Abildgaards Alle		DK
Gibson, Keith	Bagsvaerd		DK

US-CL-CURRENT: [435/200](#); [435/101](#), [435/252.31](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 3. Document ID: US 20040067572 A1

L1: Entry 3 of 6

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040067572
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040067572 A1

TITLE: Pectate lyases

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andersen, Lene Nonboe	Allerod	NC	DK
Schulein, Martin	Copenhagen		DK
Dela, Hanne	Copenhagen		DK
Lange, Niels Erik Krebs	Raleigh		US
Bjornvad, Mads Eskelund	Frederiksberg		DK
Moller, Soren	Holte		DK
Glad, Sanne O Schroder	Ballerup		DK
Kauppinen, Markus Sakari	Copenhagen N		DK
Schnorr, Kirk	Copenhagen N		DK
Kongsbak, Lars	Holte		DK

US-CL-CURRENT: [435/232](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 20020142438 A1

L1: Entry 4 of 6

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142438
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020142438 A1

TITLE: Novel pectate Lyases

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andersen, Lene Nonboe	Allerod	NC	DK
Schulein, Martin	Copenhagen		DK

Dela, Hanne	Copenhagen	DK
Lange, Niels Erik Krebs	Raleigh	US
Bjornvad, Mads Eskelund	Frederiksberg	DK
Moller, Soren	Holte	DK
Glad, Sanne O. Schroder	Ballerup	DK
Kauppinen, Markus Sakari	Copenhagen N	DK
Schnorr, Kirk	Copenhagen N	DK
Kongsbak, Lars	Holte	DK

US-CL-CURRENT: [435/201](#); [426/11](#), [435/263](#), [435/320.1](#), [435/325](#), [435/69.1](#), [442/59](#),
[510/226](#), [510/305](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 6268197 B1

L1: Entry 5 of 6

File: USPT

Jul 31, 2001

US-PAT-NO: 6268197

DOCUMENT-IDENTIFIER: US 6268197 B1

TITLE: Xyloglucan-specific alkaline xyloglucanase from bacillus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 6. Document ID: US 6165769 A

L1: Entry 6 of 6

File: USPT

Dec 26, 2000

US-PAT-NO: 6165769

DOCUMENT-IDENTIFIER: US 6165769 A

TITLE: Pectin degrading enzymes from Bacillus licheniformis

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Term	Documents
ENDOGLUCANASE	1147
ENDOGLUCANASES	668
ATCC	71447
ATCCS	8
"14580"	1001
14580S	0

((ATCC ADJ "14580") AND ENDOGLUCANASE).CLM..PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6
((ENDOGLUCANASE AND ATCC 14580).CLM.).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6

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ENDOGLUCANASE	1147
ENDOGLUCANASES	668
ATCC	71447
ATCCS	8
"14580"	1001
14580S	0
((ATCC ADJ "14580") AND ENDOGLUCANASE).CLM..PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6
((ENDOGLUCANASE AND ATCC 14580).CLM.).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6

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 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

L1 (endoglucanase AND ATCC 14580).clm.

6 L1

END OF SEARCH HISTORY

09/576728

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(FILE 'HOME' ENTERED AT 14:31:07 ON 23 JAN 2007)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 14:31:21 ON 23 JAN 2007
SEA ENDOGLUCANASE

609 FILE AGRICOLA
17 FILE ANABSTR
13 FILE ANTE
36 FILE AQUASCI
771 FILE BIOENG
2165 FILE BIOSIS
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1021 FILE BIOTECHDS
873 FILE BIOTECHNO
824 FILE CABA
3435 FILE CAPLUS
465 FILE CEABA-VTB
11 FILE CIN
34 FILE CONFSCI
2 FILE CROPB
16 FILE CROPU
2 FILE DDFU
2758 FILE DGENE
145 FILE DISSABS
4 FILE DRUGU
4 FILE EMBAL
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887 FILE ES BIOBASE
2 FILE FOREGE
98 FILE FROSTI
562 FILE FSTA
1929 FILE GENBANK
2 FILE HEALSAFE
294 FILE IFIPAT
159 FILE JICST-EPLUS
4 FILE KOSMET
1159 FILE LIFESCI
1131 FILE MEDLINE
40 FILE NTIS
12 FILE OCEAN
1024 FILE PASCAL
37 FILE PCTGEN
1 FILE PHIN
15 FILE PROMT
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2110 FILE SCISEARCH
340 FILE TOXCENTER
1182 FILE USPATFULL
148 FILE USPAT2
19 FILE VETU
2 FILE WATER
333 FILE WPIDS
2 FILE WPIFV
333 FILE WPINDEX

L1

QUE ENDOGLUCANASE

FILE 'CAPLUS, BIOSIS, SCISEARCH, LIFESCI, MEDLINE, PASCAL, BIOTECHDS,

EMBASE, ESBIODASE, BIOTECHNO, CABA, BIOENG, AGRICOLA' ENTERED AT 14:32:24
ON 23 JAN 2007

L2 107 S L1 AND LICHENIFORMIS
L3 3 S L2 AND (ATCC 14580)
L4 3 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 14 ibib ab 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:949523 CAPLUS

DOCUMENT NUMBER: 142:18180

TITLE: Complete genome sequence of the industrial bacterium *Bacillus licheniformis* and comparisons with closely related *Bacillus* species

AUTHOR(S): Rey, Michael W.; Ramaiya, Preethi; Nelson, Beth A.; Brody-Karpin, Shari D.; Zaretsky, Elizabeth J.; Tang, Maria; Lopez de Leon, Alfredo; Xiang, Henry; Gusti, Veronica; Clausen, Ib Groth; Olsen, Peter B.; Rasmussen, Michael D.; Andersen, Jens T.; Jorgensen, Per L.; Larsen, Thomas S.; Sorokin, Alexei; Bolotin, Alexander; Lapidus, Alla; Galleron, Nathalie; Ehrlich, S. Dusko; Berka, Randy M.

CORPORATE SOURCE: Novozymes Biotech Inc., Davis, CA, 95616, USA

SOURCE: GenomeBiology (2004), 5(10), No pp. given

CODEN: GNBLEW; ISSN: 1465-6914

URL: <http://genomebiology.com/content/pdf/gb-2004-5-10-r77.pdf>

PUBLISHER: BioMed Central Ltd.

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB *Bacillus licheniformis* is a Gram-pos., spore-forming soil bacterium that is used in the biotechnol. industry to manufacture enzymes, antibiotics, biochems., and consumer products. This species is closely related to the well studied model organism *Bacillus subtilis*, and produces an assortment of extracellular enzymes that may contribute to nutrient cycling in nature. The complete nucleotide sequence of the *B. licheniformis* ATCC 14580 genome was determined, comprising a circular chromosome of 4,222,336 base-pairs (bp) containing 4208 predicted protein-coding genes with an average size of 873 bp, 7 rRNA operons, and 72 tRNA genes. The *B. licheniformis* chromosome contains large regions that are colinear with the genomes of *B. subtilis* and *Bacillus halodurans*, and approx.80% of the predicted *B. licheniformis* coding sequences have *B. subtilis* orthologs. Despite the unmistakable organizational similarities between the *B. licheniformis* and *B. subtilis* genomes, there are notable differences in the nos. and locations of prophages, transposable elements, and a number of extracellular enzymes and secondary metabolic pathway operons that distinguish these species. Differences include a region of >80 kilobases (kb) that comprises a cluster of polyketide synthase genes and a second operon of 38 kb encoding plipastatin synthase enzymes that are absent in the *B. licheniformis* genome. The availability of a completed genome sequence for *B. licheniformis* should facilitate the design and construction of improved industrial strains and allow for comparative genomics and evolutionary studies within this group of Bacillaceae. The genome sequence is deposited in GenBank/EMBL/DBJ under accession number CP000002.

REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:946468 CAPLUS

DOCUMENT NUMBER: 138:35286

TITLE: Protein and cDNA sequences of a novel *Bacillus* endo- β -1,4-glucanase and uses thereof

INVENTOR(S): Outtrup, Helle; Schuelein, Martin; Eskelund, Mads Bjornvad; Gibson, Keith

PATENT ASSIGNEE(S): Novozymes A/S, Den. .

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002099091	A2	20021212	WO 2002-DK381	20020606
WO 2002099091	A3	20030410		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1399543	A2	20040324	EP 2002-735093	20020606
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004536593	T	20041209	JP 2003-502201	20020606
CN 1633496	A	20050629	CN 2002-811352	20020606
US 2005112749	A1	20050526	US 2003-479446	20031202
US 7041488	B2	20060509		
US 2005215450	A1	20050929	US 2005-44363	20050126
US 7141403	B2	20061128		

PRIORITY APPLN. INFO.:
 DK 2001-879 A 20010606
 US 2001-302446P P 20010629
 WO 2002-DK381 W 20020606
 US 2003-479446 A3 20031202

AB The invention provides protein and cDNA sequences of a novel *Bacillus* enzyme exhibiting endo- β -1,4-glucanase activity. The invention further provides the stability information of the endo- β -1,4-glucanase and its uses for detergent and textile applications.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:861778 CAPLUS
 DOCUMENT NUMBER: 134:38866
 TITLE: Cloning, characterization and industrial applications of a novel endo- β -1,4-glucanase from *Bacillus licheniformis*
 INVENTOR(S): Schulein, Martin; Bjornvad, Mads Eskelund
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000073428	A1	20001207	WO 2000-DK278	20000524
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2374433	A1	20001207	CA 2000-2374433	20000524

EP 1185631	A1	20020313	EP 2000-929321	20000524
EP 1185631	B1	20060809		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
BR 2000010998	A	20020604	BR 2000-10998	20000524
JP 2003501021	T	20030114	JP 2001-500742	20000524
AT 335812	T	20060915	AT 2000-929321	20000524

PRIORITY APPLN. INFO.:		DK 1999-755	A	19990528
		WO 2000-DK278	W	20000524

AB An enzyme exhibiting endo- β -1,4-glucanase activity which belongs to family 9 of glycosyl hydrolases is obtained from a strain belonging to the genus *Bacillus* such as *Bacillus licheniformis*, ATCC 14580. The DNA and encoded amino acid sequences of the enzyme and the enzyme core (the catalytically active domain of the enzyme) are disclosed. The expressed **endoglucanase** could be useful in various industrial applications such as detergent, paper and pulp, oil drilling, oil extraction, wine and juice, food ingredients, animal feed or textile industries.

REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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